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EDITORIALS.

The MONTHLY will not appear during the months of July and August, but the August-September number will appear about the first of September.

We are pleased to state that our valued contributor, Dr. G. B. M. Zerr, has been called to the presidency of The Russell College, Lebanon, Va. May success, as we know it will, follow him in his new field of work.

The MONTHLY is now sorely in need of funds to carry it on further. Will those of our subscribers who are in arrears remit the amount of their subscriptions at once, so that no delay may be caused through lack of funds in getting out our next issue?

The degree of Doctor of Philosophy was conferred June 9th, by the University of Pennsylvania, on Prof. Robert J. Alely, the subject of his thesis being, "Some Contributions to the Geometry of the Triangle." We congratulate Dr. Alely on having received this degree as it is not an honorary one, but was obtained by actual work done at the University during the past year.

We are sorry that we were obliged to disappoint our readers in failing to give in the May number of the MONTHLY, the first of a series of articles on Lie's Transformation groups, by Dr. Edgar Odell Lovett. Owing to some unavoidable circumstances, Dr. Lovett was unable to prepare the articles, but he assures us that he will have his first article ready for the August-September number. We shall look forward with a good deal of interest for the appearance of the next number.

It has been proposed that the number of pages of the MONTHLY be increased from 32 to 50, half the number of which shall be devoted to papers and the other half to the solutions of problems, and the price of subscription raised to \$5. per year. We shall be pleased to hear from every one of our subscribers in regard to this matter, that in case the proposition meets with the necessary endorsement it may be carried into execution at the beginning of the fifth volume. We are at all times open to advice and suggestions from our readers and no pains will be spared on our part to increase the usefulness of our journal.

The University of Chicago, Summer, 1897. The following mathematical courses will be offered:—By Professor Moore: Abstract groups; Projective geometry.—By Professor Bolza: Hyperelliptic functions; Advanced integral calculus.—By Dr. Lovett: The geometry of Lie's transformation-groups.—By Dr. Young: ¹Conferences on mathematical pedagogy; ¹Determinants; Culture Calculus; ²Plane trigonometry.—By Mr. Slaughter: Integral Calculus; College algebra. The courses are four or five hours weekly for twelve weeks from July 1, 1897; the two courses marked 1 are, however, only for the first six weeks, and

the course marked 2 is ten hours weekly for the second six weeks. Those who expect to work in mathematics at the University of Chicago during the coming summer, as well as those who desire further information, are requested to communicate with Professor Moore.

It was our intention to have appear in this issue a group of some of our contributors, but it was impossible for us to make all the necessary arrangements without delaying this number. So we have decided to have our group in the August-September number.

We are indebted to Dr. Artemas Martin for pamphlet copies of his valuable papers on "Formulas for the Sides of Rational Plane Triangles," and "A Method of Finding, without Tables, the Number Corresponding to a given Logarithm." These papers will appear in Vol. II., No. 11 of the *Mathematical Magazine*.

We have received a copy in pamphlet form of "Transcendental Numbers," by Prof. Heinrich Weber. Translated into English by Prof. W. W. Beman. Reprinted from the *Bulletin of the American Mathematical Society*. Thanks are due Professor Beman for giving us this reproduction in English of this very interesting and valuable paper.

Ginn & Co. announce for June a *Higher Arithmetic* by Wooster Woodruff Beman, of the University of Michigan, and David Eugene Smith, of the Michigan State Normal School. Teachers will await with much interest this new work on arithmetic by these well-known authors. The same publishers announce as ready "*An Elementary Arithmetic*," by William W. Speer, being the second book of this new series.

BOOKS AND PERIODICALS.

Differential Equations. By D. A. Murray, Ph. D., of the Department of Mathematics in Cornell University. Price \$1.90. 230 pages. New York and London: Longmans, Green & Co. 1897.

This work aims to meet the needs of students of physics and engineering who wish to use the subject as a tool, as well as of those students who have more time to give to the general theory and who wish to proceed to the study of the higher mathematics. For the first class, the theoretical explanations have been given as briefly as is consistent with clearness and in most cases the examples have been worked in full detail. In addition, two chapters have been introduced dealing with geometrical and physical problems. For the second class of students, notes have been inserted in the latter part of the book giving the demonstration of additional theorems and more vigorous proofs of theorems partially proved in the first part of the book. Interesting historical and biographical notes have been given in proper places, and many references are made to sources where fuller explanations and developments than the scope of the work allows may be found. We commend the book as providing an excellent introductory course in Differential Equations. J. M. C.